



SUNPOWER TECHNOLOGY CORP.
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SPU-100-xx Series

100W, Single Output

U Bracket Power Supply



133.5 x 84 x 38 mm
 5.26 x 3.30 x 1.50 inch

Features:

- * Power ON with LED indicator
- * Built in EMI filter, low ripple noise
- * Over voltage protection
- * Over load & short circuit protection
- * Output voltage $\pm 10\%$ adjustment
- * 100% full load burn-in test
- * UL, cUL, TUV, CB, CE approved for SPU-100-05 / 100-24
- * 2 years warranty

Specification:

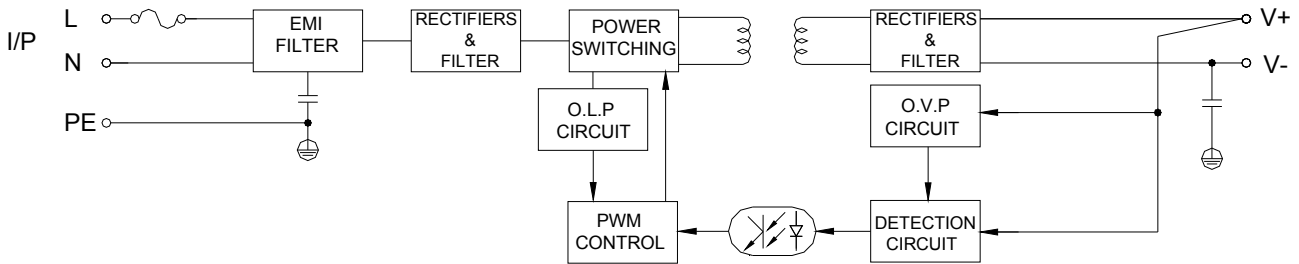
INPUT	Voltage	90V ~ 264VAC universal full range or 127V ~ 375VDC.						
	Frequency	47 ---- 63 Hz						
	Current	<3.0A @100V AC input, full load condition						
	Inrush Current	<30A@115V , <60A@230V AC input. Cold start at 25°C ambient						
	Leakage Current	<1.0mA@264V AC input						
OUTPUT	MODEL No.	SPU-100-3.3	SPU-100-05	SPU-100-12	SPU-100-15	SPU-100-24	SPU-100-28	SPU-100-48
	Voltage	3.3V	5V	12V	15V	24V	28V	48V
	Min Load	0A	0A	0A	0A	0A	0A	0A
	Max Load	25A	20A	8.5A	6.8A	4.2A	3.6A	2.1A
	Output Tolerance ②	$\pm 3\%$	$\pm 2\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$
	Ripple Noise MAX. ③	70mV	70mV	120mV	150mV	200mV	200mV	250mV
	Efficiency (TYP.)	71%	77%	81%	82%	83%	83%	83%
	Output MAX.	83W	100W	102W	102W	101W	101W	101W
PROTECTION	Over Voltage	3.8~4.6V	5.8~7.0V	13.8~16.8V	17.3~21.0V	27.6~33.6V	32.2~39.2V	55.2~67.2V
	OverLoad & ShortCircuit	Hiccup and recovers automatically after the fault is removed. When power supply over 105%~ 180% max load or short circuit acted, power supply will go into hiccup mode and recover automatically after the fault is removed.						
ELEC. CHAR.	Rise time	<50mS						
	Hold up time	>80mS@230V, full load condition						
	Setup time	<1.5 S@115V , <1.0 S@230V						
ENVIRONMENT	Temperature ④	Operating: 0 ~ +70°C ; De-rating: 45 ~ 70°C: 2.5%/°C ; Storage: -10 ~ +75°C						
	Humidity	Operating: 20% ~ 90% RH (non condensing) ; Storage: 10% ~ 95% RH (non condensing)						
SAFETY	Withstand voltage	I/P-O/P:3KVAC, I/P-PE:1.5KVAC, O/P-PE:0.5KVDC, 1minute						
	Isolation resistance	I/P-O/P, I/P-PE, O/P-PE > 100MΩ/500VDC at 25°C / 70% RH						
	Safety standard	UL 60950 3 rd , CSA C22.2 No.950-95 3 rd , TUV EN 60950-1:2001+A11, IEC 60950, approved.						
EMC	EMI	EN 55022 CLASS B · FCC CFR 47 PART 15 CLASS B · CNS 13438 CLASS B.						
	EMS	Compliance to EN61000-3-2 CLASS A, EN61000-3-3 EN 55024 : EN 61000-4-2,3,4,5,6,8,11						
OTHERS	Cooling	Natural cooling, When output exceed 80W, a 16 CFM (min) FAN is required.						
	M.T.B.F.	289 K hours						
	Dimension	133.5 x 84 x 38 mm (L*W*H)						
	Packing	N.W.:0.45 Kg / 1pc; 30 pcs / 1.24 CUFT / 1 CTN						
NOTE	① All measurements which not mentioned are based on 230VAC input, output Max at ambient 25°C / 70%RH ② Output tolerance included set up voltage, line regulation and load regulation. ③ Ripple & noise are measured at 100~254VAC input with 0~50°C condition and 20MHz of bandwidth by using a 10" ~15" twisted pair-wire terminated with a 0.1uF & a 47uF parallel capacitor. ④ The operating temperature shall follow the de-rating curve in spec The output load may be requested for decreasing as de-rating curve in spec when low input voltage is under 100VAC. ⑤ The power supply is considered a component of end-equipment. The end-equipment must be re-confirmed whether comply with EMC directives.							



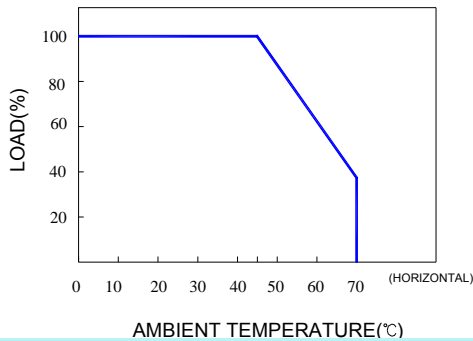
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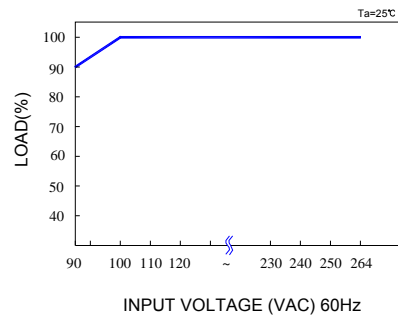
Block Diagram : US1



De-rating Curve :

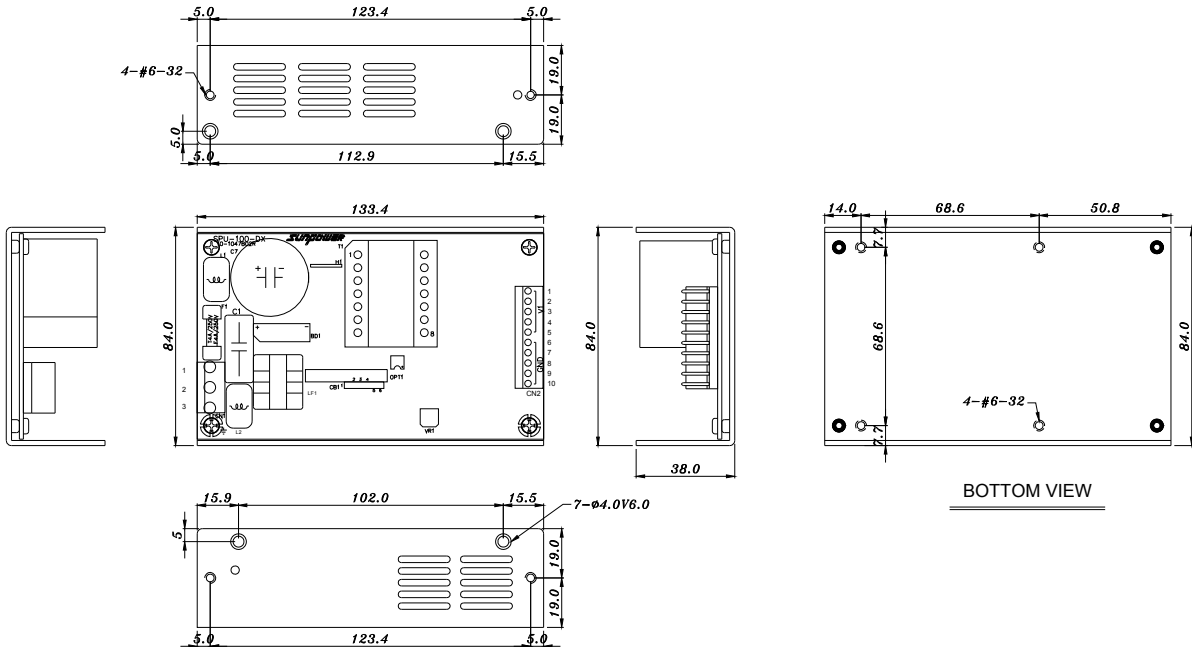


Output De-rating Vs Input Voltage :



Dimension:

(Unit: mm)



NOTES:

TERMINAL BLOCK: 5P P=3.96mm(Pin 2,4 CUT)

MODEL No.	1	2	3
SPU-100-xx	L	N	PE

TERMINAL BLOCK: O/P:10P, P=3.96mm

MODEL No.	1	2	3	4	5	6	7	8	9	10
SPU-100-xx	V1	V1	V1	V1	V1	GND	GND	GND	GND	GND